

CLAIMS

What is claimed is:

1. A secondary for a linear motor, comprising:
a body comprised of at least one secondary member for defining a guideway for a rotor of the linear motor;
a cover including magnetizable material for the guideway; and
an anti-skid layer disposed between the secondary member and the cover.
2. The secondary of claim 1, wherein the anti-skid layer adheres to the cover.
3. The secondary of claim 1, wherein the anti-skid layer adheres to the secondary member.
4. The secondary of claim 1, wherein the anti-skid layer adheres to the cover and another said anti-skid layer adheres to the secondary member.
5. The secondary of claim 1, wherein the anti-skid layer has a thickness of up to 0.2 mm.
6. The secondary of claim 1, wherein the anti-skid layer is constructed as separate inset between the cover and the secondary member.

7. The secondary of claim 1, wherein the anti-skid layer contains silicone.
8. The secondary of claim 1, wherein the anti-skid layer is comprised of at least two different materials.
9. The secondary of claim 1, wherein the anti-skid layer is made of silicone and rubber.
10. The secondary of claim 1, wherein the anti-skid layer includes a surface structure.
11. The secondary of claim 10, wherein, the surface structure has a serrated configuration.
12. The secondary of claim 10, wherein the anti-skid layer has a mesh-like configuration.
13. The secondary of claim 10, wherein the anti-skid layer has a nap-like configuration.
14. The secondary of claim 10, wherein the anti-skid layer has a configuration in the form of parallel strips to define channels for drainage of liquid.

15. The secondary of claim 1, wherein the body includes at least one additional said secondary member, wherein the cover is sized to extend over the two secondary members.
16. The secondary of claim 1, wherein the body has opposite ends, and further comprising mechanical fasteners provided at the ends of the body for securing the cover to the body.
17. The secondary of claim 16, wherein the ends of the body are made of non-magnetizable material.
18. The secondary of claim 1, configured as stator for the linear motor.
19. The secondary of claim 1, wherein the cover is made in one piece of magnetizable material.
20. The secondary of claim 1, wherein the cover is made of non-magnetic material and has sections of magnetic material along the guideway to contact the body, said anti-skid layer being disposed between the sections of magnetic material and the body.
21. The secondary of claim 1, wherein the magnetizable material of the cover has a saturation induction of maximal 1.5 Tesla.

22. The secondary of claim 1, wherein the magnetizable material of the cover has a saturation induction of at least 0.3 Tesla.
23. The secondary of claim 1, wherein the cover has a thickness of less than 0.5 mm.
24. The secondary of claim 1, wherein the cover has a thickness of at least 0.1 mm.
25. The secondary of claim 1, wherein the cover is made of special steel with a saturation magnetization of $\frac{3}{4}$ 1.5 Tesla.
26. The secondary of claim 1, wherein the cover has a surface provided with a length scale extending along the guideway.
27. The secondary of claim 26, wherein the length scale is disposed in center of the guideway.
28. A linear motor, comprising a rotor as primary, and a secondary having a body comprised of at least one secondary member for defining a guideway for the rotor, a cover including magnetizable material for the guideway, and an anti-skid layer disposed between the secondary and the cover.

29. A cover for a secondary or primary of a linear motor, said cover comprising a cover body; and an anti-skid layer applied to the cover body.
30. The cover of claim 29, wherein the cover body includes magnetizable material.